

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A polymer battery comprising:

at least one layer of a positive electrode, the positive electrode being in thin film form and comprising a positive active material layer formed on a positive electrode collector;

at least one layer of a polymer electrolyte retained by a separator; ~~and~~

at least one layer of a negative electrode, the negative electrode being in thin film form and comprising a carbon material as an active substance~~each of which is in a thin film form, stacked flat in this order, wherein stacked flat an outer periphery of the separator and an outer periphery of the negative electrode are positioned entirely outside an outer periphery of the positive electrode except for a collector tab provided for the positive electrode so as to protrude from one side of the positive electrode;~~

wherein, relative to an outer periphery of the polymer battery, the layers are positioned in an order of an outer periphery of the polymer battery, an outer periphery of the negative electrode, an outer periphery of the separator, and an outer periphery of the positive electrode; and

wherein the following relationship is satisfied in a portion of the outer peripheries of the separator and of the negative electrode: a distance D1 between an end of the negative electrode and an end of the positive electrode is greater than a distance D2 between the end of the negative electrode and an end of the separator.

2. (Previously Presented) The polymer battery according to claim 1, wherein the distance D2 between the end of the negative electrode and the end of the separator is set at a value which is 20% or less of the distance D1 between the end of the negative electrode and the end of positive electrode.

3. (Previously Presented) The polymer battery according to claim 1, wherein two sides of the positive electrode are provided with polymer electrolytes, respectively, retained by separators, and at least portions of the separators are linked to each other.

4. (Previously Presented) The polymer battery according to claim 1, wherein the positive electrode and the negative electrode are in rectangular forms, each of which is provided with a collector tab protruding from one side thereof, and the following relationship is satisfied in a side next to the side on which the collector tab is formed: the distance D1 between the end of the negative electrode and the end of the positive electrode is greater than a distance D2 between the end of negative electrode and the end of the separator.

5. (Withdrawn) A manufacturing method for a polymer battery having at least one layer of a positive electrode, at least one layer of a polymer electrolyte retained by a separator and at least one layer of a negative electrode, each of which is in a thin film form, stacked in this order, the method comprising the steps of:

processing the positive electrode, the separator and the negative electrode such that the entirety of the outer peripheries of the separator and the negative electrode is positioned outside of the outer periphery of the positive electrode except for a collector tab (4), which is provided to the positive electrode so as to protrude from one side of the positive electrode, at the time when the positive electrode, the separator and the negative electrode are stacked; and

using jigs having means for determining the positions of electrodes in at least two places and, thereby, stacking the positive electrode, the polymer electrolyte retained by the separator and the negative electrode so as to satisfy the following relationship in a portion of the outer peripheries of the separator and of the negative electrode: the length between the end of the negative electrode and the end of the positive electrode (D1) > the length between the end of the negative electrode and the end of the separator (D2).

6. (Withdrawn) The method according to claim 5, wherein the separator, the positive electrode and the polymer electrolyte are integrated by means of polymerization/crosslinking before the positive electrode, the separator and the negative electrode are stacked.

7. (Previously Presented) The polymer battery according to claim 1, wherein a size of the positive electrode and a size of the negative electrode are chosen whereby lithium does not deposit on a metal portion of a negative electrode collector which is exposed from the end of the negative electrode.

8. (Currently Amended) A polymer battery comprising:
at least one layer of a positive electrode;
at least one layer of a polymer electrolyte retained by a separator; and
at least one layer of a negative electrode, each of which is in a thin film form,
stacked flat in this order:
wherein the positive electrode comprises a positive active material layer formed
on a positive electrode collector;
wherein the negative electrode comprises a carbon material as an active substance;
wherein the positive electrode and the negative electrode are in rectangular forms,
each of which is provided with a collector tab protruding from one side thereof;
wherein stacked flat an outer periphery of the separator and an outer periphery of
the negative electrode are positioned entirely outside an outer periphery of the positive
electrode except for the collector tab, and
wherein the following relationship is satisfied in a portion of the outer peripheries
of the separator and of the negative electrode in a side next to the side on which the
collector tab is formed: a distance D1 between an end of the negative electrode and an
end of the positive electrode is greater than a distance D2 between the end of the negative
electrode and an end of the separator.

9. (Previously Presented) The stacked type polymer battery according to claim 8,
wherein the distance D2 between the end of the negative electrode and the end of the
separator is set at a value which is 20% or less of the distance D1 between the end of the
negative electrode and the end of positive electrode.

10. (Previously Presented) The stacked type polymer battery according to claim 8,
wherein two sides of the positive electrode are provided with polymer electrolytes,
respectively, retained by separators, and at least portions of the separators are linked to
each other.

11. (Previously Presented) The stacked type polymer battery according to claim 8, wherein a size of the positive electrode and a size of the negative electrode are chosen whereby lithium does not deposit on a metal portion of a negative electrode collector which is exposed from the end of the negative electrode.